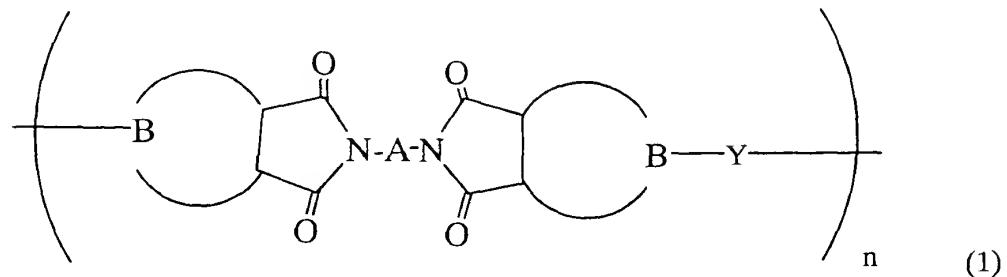
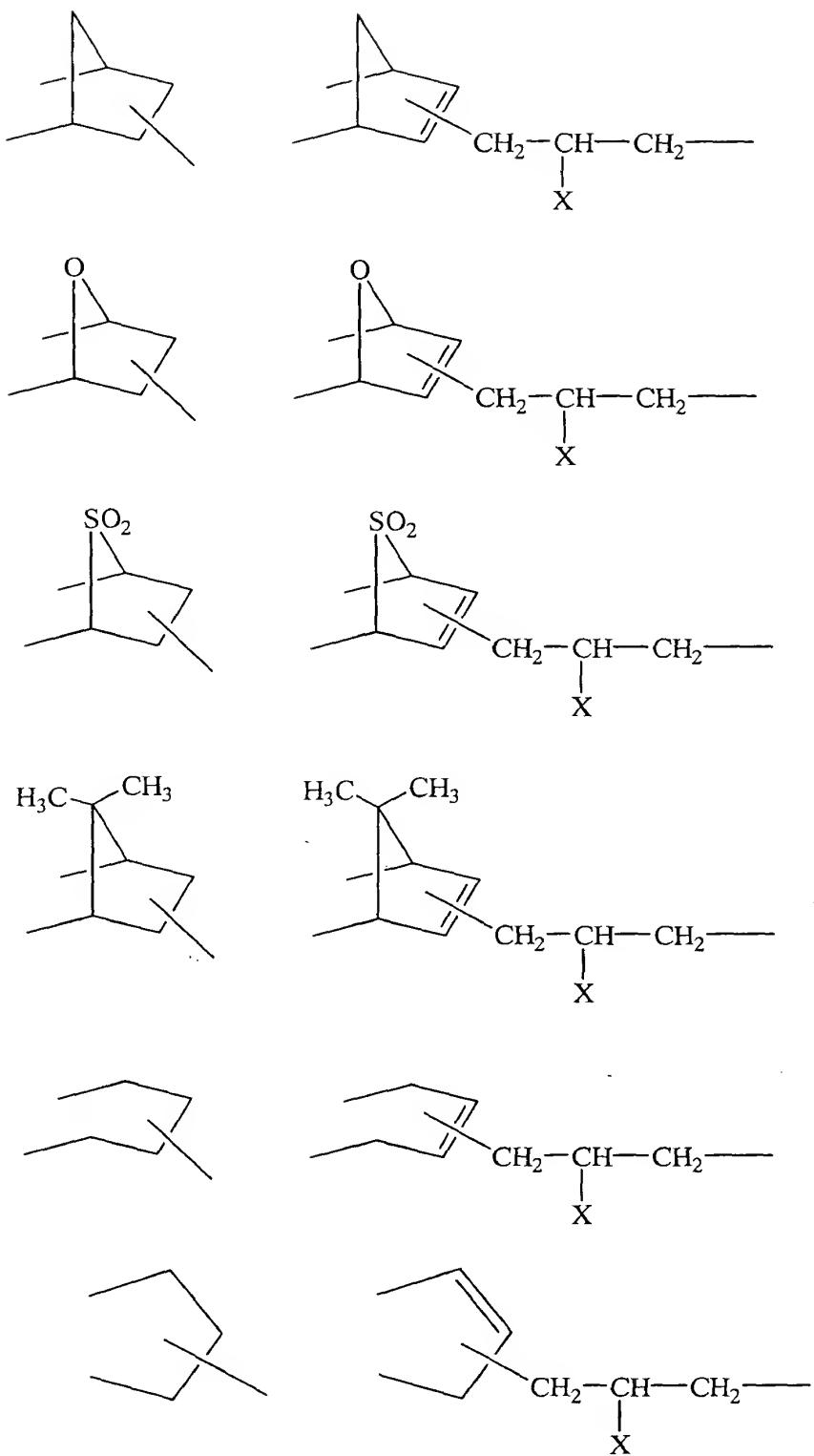


What Is Claimed Is:

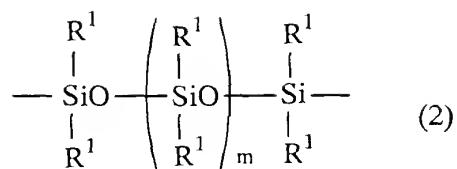
1. An imide silicone resin with a structure represented by a general formula (1) shown below:



[wherein, each A is a bivalent organic group, each B represents, independently, a trivalent group selected from groups having the formulas shown below, in which two single bonds protruding in a substantially identical direction are bonded to an imide ring to form a ring structure and the third single bond is bonded to Y, Y is a bivalent group represented by a general formula (2) shown below, and n is an integer from 2 to 100:

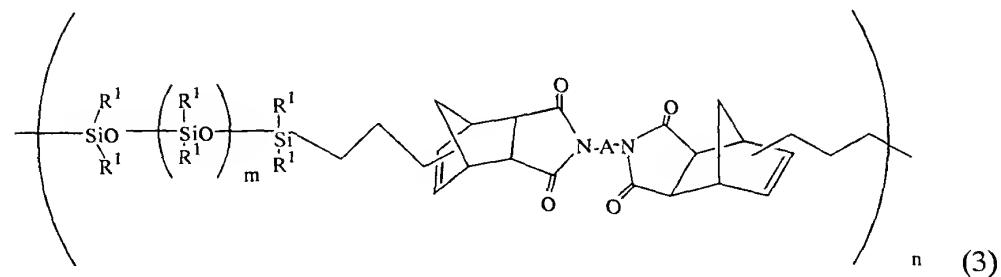


(wherein in each formula, X represents a hydrogen atom or a methyl group),



(wherein, each  $\text{R}^1$  represents, independently, a monovalent organic group, and  $m$  is an integer from 0 to 100)].

2. The imide silicone resin according to claim 1, with a structure represented by a general formula (3) shown below:

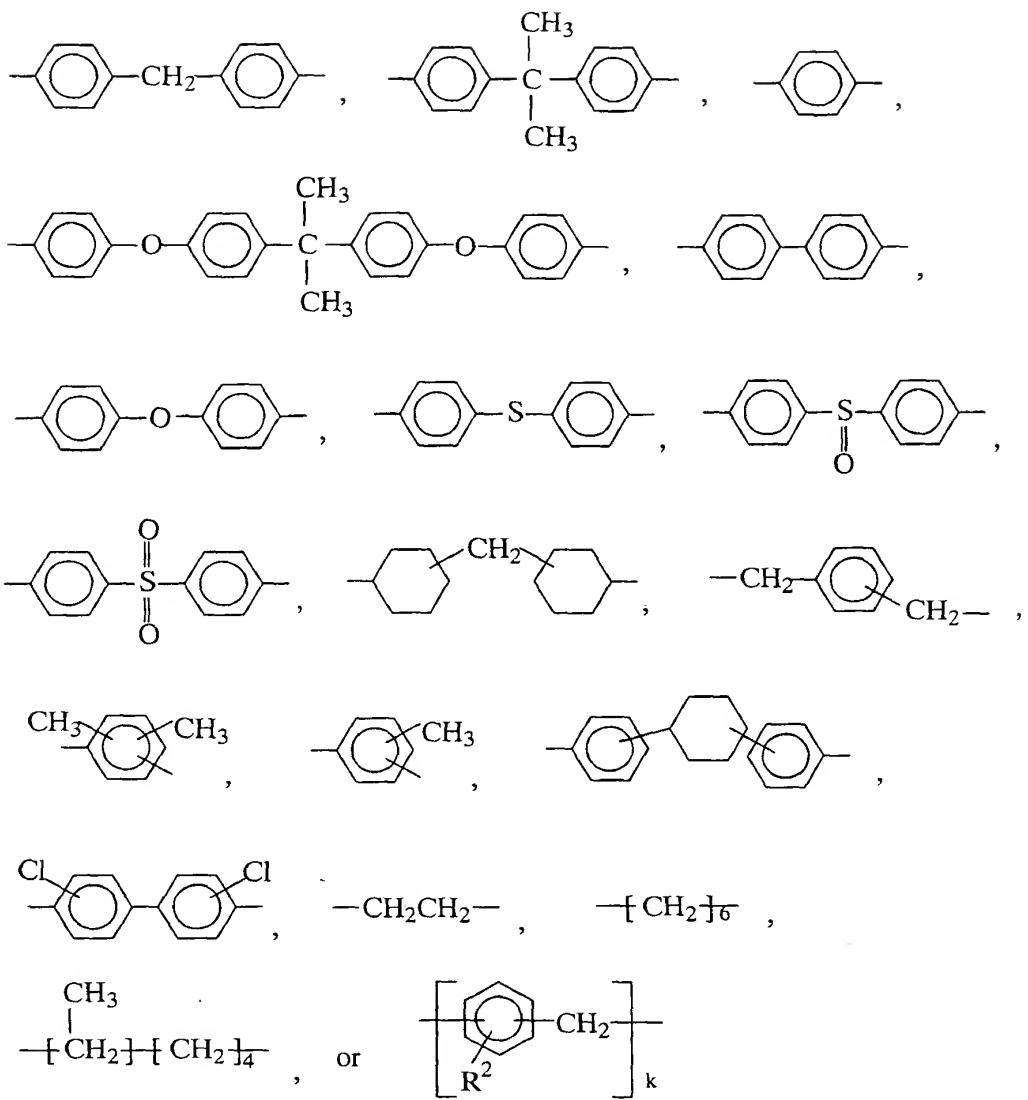


(wherein,  $\text{R}^1$ ,  $\text{A}$ ,  $m$ , and  $n$  are as defined above).

3. The imide silicone resin according to claim 1, wherein said  $n$  is an integer from 3 to 70.

4. The imide silicone resin according to claim 1, wherein said  $m$  is an integer from 0 to 60.

5. The imide silicone resin according to claim 1, wherein each  $\text{A}$  is represented by the formula:



(wherein,  $\text{R}^2$  represents an unsubstituted or substituted monovalent hydrocarbon group of 1 to 10 carbon atoms, and  $k$  is an integer from 1 to 20).

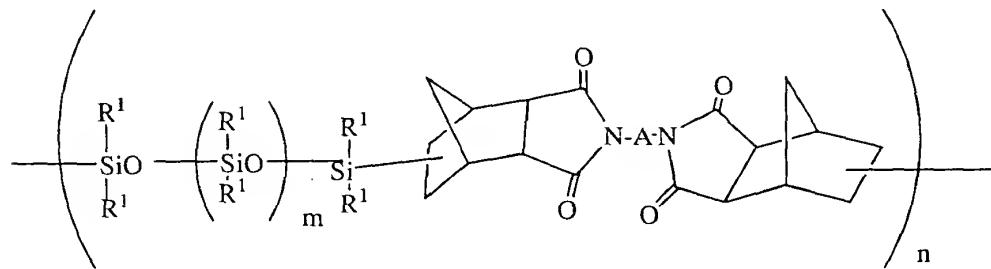
6. The imide silicone resin according to claim 5, wherein said  $\text{R}^2$  represents an unsubstituted or substituted monovalent hydrocarbon group of 1 to 6 carbon atoms.

7. The imide silicone resin according to claim 5, wherein said  $k$  is an integer from 1 to 10.

8. The imide silicone resin according to claim 1, wherein said  $\text{R}^1$  represents an unsubstituted or substituted monovalent hydrocarbon group of 1 to 12 carbon atoms.

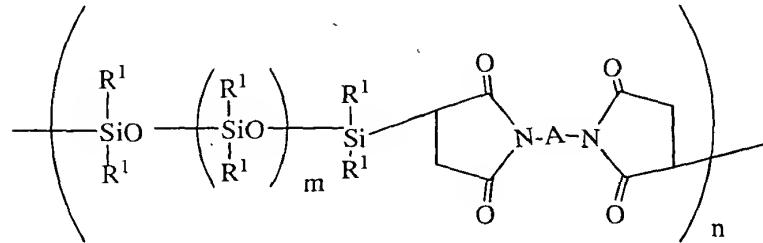
9. The imide silicone resin according to claim 1, wherein said  $R^1$  represents an unsubstituted or substituted monovalent hydrocarbon group of 1 to 8 carbon atoms.

10. The imide silicone resin according to claim 1, with a structure represented by a general formula shown below:



(wherein,  $R^1$ ,  $A$ ,  $m$ , and  $n$  are as defined above).

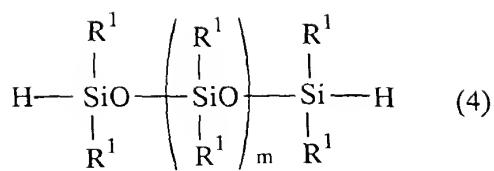
11. An imide silicone resin with a structure represented by a general formula shown below:



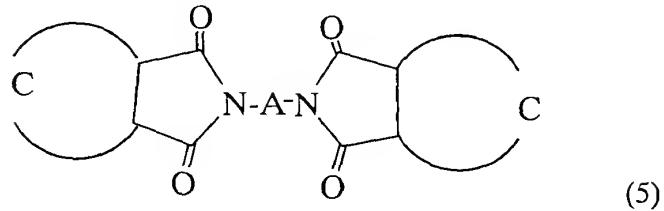
(wherein, each  $R^1$  represents, independently, a monovalent organic group,  $A$  is a bivalent organic group,  $m$  is an integer from 0 to 100, and  $n$  is an integer from 2 to 100).

12. A production process for the imide silicone resin according to claim 1, comprising:

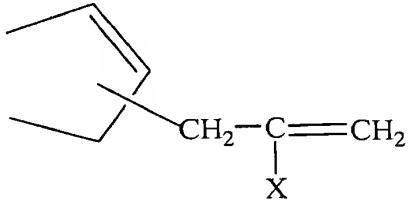
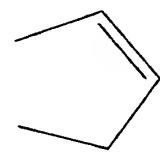
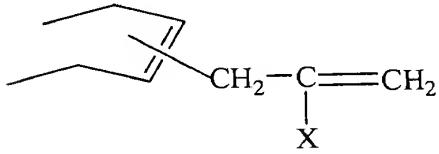
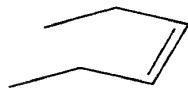
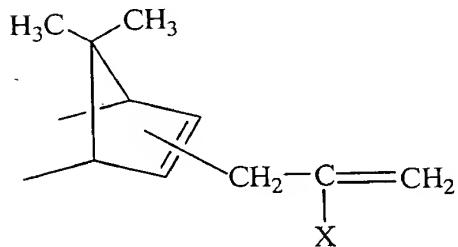
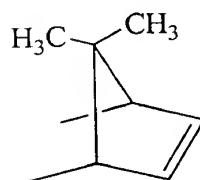
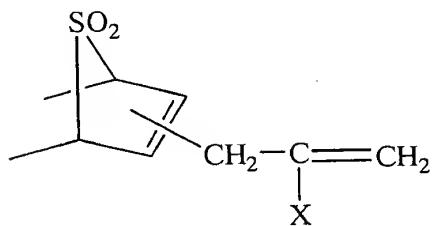
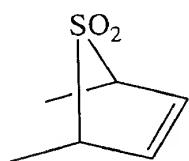
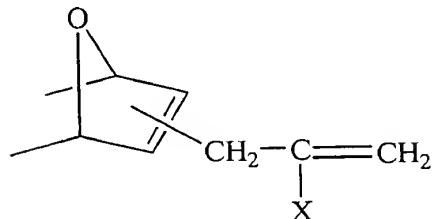
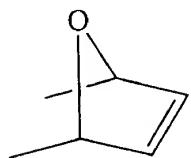
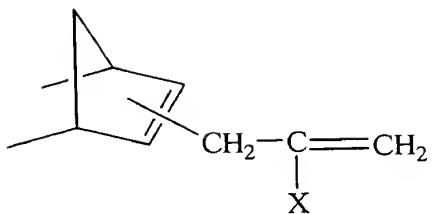
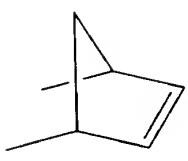
subjecting an organopolysiloxane represented by a general formula (4) shown below and an imide compound represented by a general formula (5) shown below to an addition reaction:



(wherein, each  $\text{R}^1$  represents, independently, a monovalent organic group, and  $m$  is an integer from 0 to 100),

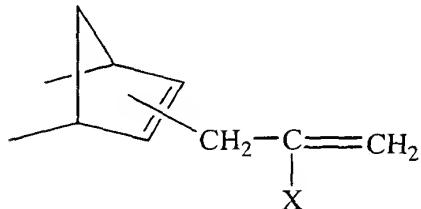


[wherein,  $A$  is a bivalent organic group, and each  $C$  represents, independently, a bivalent group selected from groups shown below:



(wherein, X represents a hydrogen atom or a methyl group)].

13. The production process according to claim 12, wherein in said imide compound represented by said general formula (5), said C is a bivalent group represented by a formula shown below:

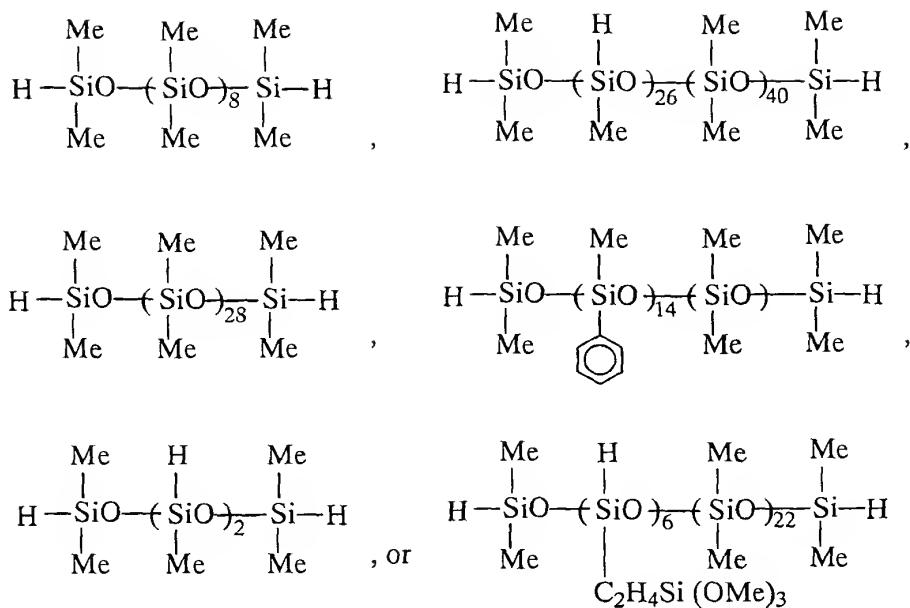


(wherein, X is as defined above).

14. The production process according to claim 12, wherein said m is an integer from 0 to 60.

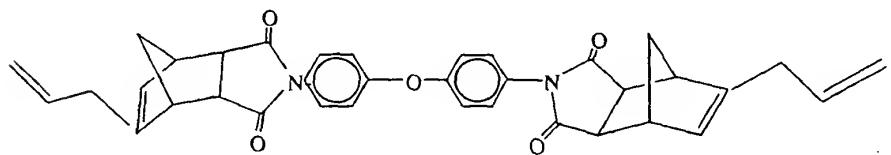
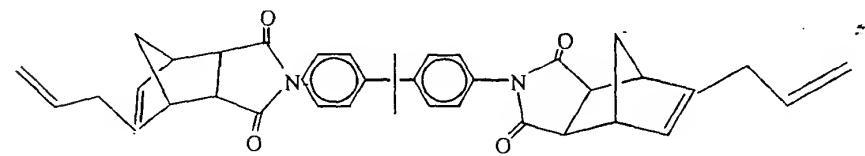
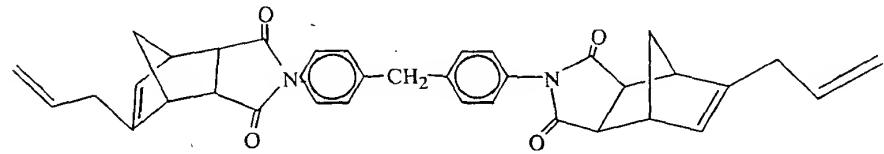
15. The production process according to claim 12, wherein said organopolysiloxane is a dimethylpolysiloxane with both molecular chain terminals blocked with dimethylhydrogensiloxyl groups, a copolymer of dimethylsiloxane and methylphenylsiloxane with both molecular chain terminals blocked with dimethylhydrogensiloxyl groups, a methylphenylpolysiloxane with both molecular chain terminals blocked with dimethylhydrogensiloxyl groups, or a mixture of two or more thereof.

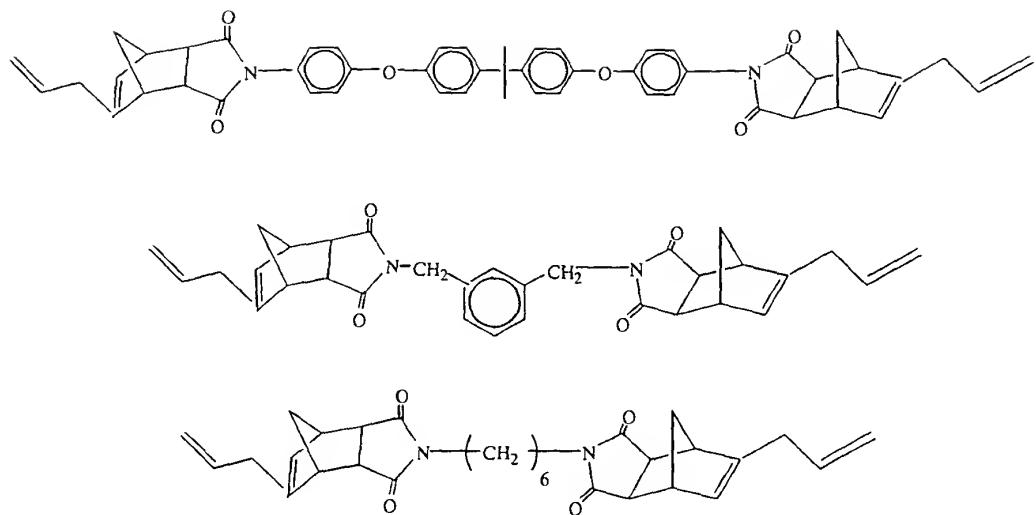
16. The production process according to claim 12, wherein said organopolysiloxane is:



(wherein in the formulas Me represents a methyl group).

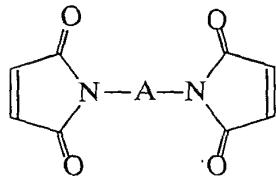
17. The production process according to claim 12, wherein said imide compound comprises at least one compound shown below:



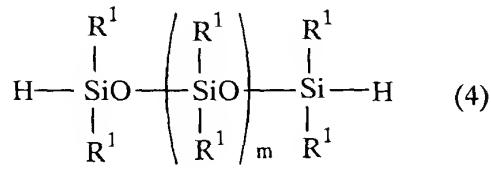


18. A production process for the imide silicone resin according to claim 11, comprising:

subjecting an organopolysiloxane represented by a general formula (4) shown below and an imide compound represented by a general formula shown below to an addition reaction:



(wherein, A is a bivalent organic group),



(wherein, each R<sup>1</sup> represents, independently, a monovalent organic group, and m is an integer from 0 to 100).

19. A cured resin coating formed by curing an imide silicone resin according to claim 1.